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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Courtney et al. Art Unit: 2856
Serial No. : 09/704,102 Examiner: J. Saint Surin
Filed : November 1, 2000
For : DATA COLLECTOR INSTRUMENT WITH INTEGRAL SPEED
SENSOR

Assistant Commissioner of Patents
Washington, DC 20231

RESPONSE TO OFFICE ACTION

In response to the Examiner's Office Action dated
September 26, 2001, please amend the claims as follows:

Clean Version of Amendments

1. A data collector, comprising
a housing,
a vibration signal input on said housing,
an analog to digital converter within said housing
connected to said vibration signal input, converting a vibration
signal received at said vibration signal input to a digitized
vibration signal,

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December 26, 2001

Thomas W. Humphrey
Reg. No. 34,353

*Sub
Blm*
an optical system within said housing, said optical system receiving light from outside said housing,

*Cont
A*
a receiver circuit converting said received light to a digital signal, and

a digital signal processing circuit connected to said analog to digital converter and said receiver circuit, and simultaneously receiving, storing or processing said digitized vibration signal and said digital signal converted from said received light, in real time, for the purpose of predictive maintenance.

*Sub
A-2*
13. A method of collecting data for the purpose of predictive maintenance using a data collector, comprising

receiving a vibration signal into a housing of said data collector, and converting said a vibration signal to a digitized vibration signal withing said housing,

receiving light from outside said housing into said housing, and converting said received light to a digital signal, and

simultaneously receiving, storing or processing said digitized vibration signal and said digital signal converted from said received light.